We Claim:

 An apparatus for establishing services that utilize policy-enabled resources in a communications network, comprising:

a first policy enforcement point (PEP) for identifying policy-enabled resources that are available and allocating requested policy-enabled resources to services:

a first network resource controller (NRC) for requesting from available policy-enabled resources any policy-enabled resources required to establish a particular service; and

a first resource policy layer (RPL) for provisioning, to a service being established, the policy-enabled resources allocated to that service.

- The apparatus as defined in claim 1 wherein the first PEP comprises a plurality of virtual PEPs, each virtual PEP being associated to a respective service.
- 3. The apparatus as defined in claim 1 wherein the communications network comprises a plurality of domains, each of the first PEP, first NRC, and the first RPL may be associated with any one of the domains.
- 4. The apparatus as defined in claim 1 wherein the communications network comprises a plurality of domains, the apparatus further comprises a second PEP associated with a different domain than the first PEP.
- The apparatus as defined in claim 1 wherein the communications network comprises a plurality of domains, the apparatus further comprises a second NRC associated with a different domain than the first PEP.

- The apparatus as defined in claim 1 wherein the communications network comprises a plurality of domains, the apparatus further comprises a second RPL associated with a different domain than the first PEP.
- The apparatus as defined in claim 1 wherein each RPL comprises one or more PDPs
- The apparatus as defined in claim 1 wherein resource capability information descriptors are used for resource discovery and policy provisioning between entities.
- A method of establishing services that utilize policy-enabled resources in a communications network, comprising:

identifying, at a first policy enforcement point (PEP) policy-enabled resources that are available and allocating requested policy-enabled resources to services:

requesting, from available policy-enabled resources at a first network resource controller (NRC) any policy-enabled resources required to establish a particular service; and

provisioning, to a service being established at a first resource policy layer (RPL), the policy-enabled resources allocated to that service.

- 10. The method as defined in claim 9 wherein the communications network comprises a plurality of domains, each of the first PEP, first NRC, and the first RPL may be associated with any one of the domains
- The method as defined in claim 9 wherein virtual PEPs of a main PEP are provisioned to provide resource services.
- 12. The method as defined in claim 10 wherein the virtual PEPs are provisioned to provide services in a different domain.

- 13. The method as defined in claim 12 wherein separate PEPs, each from a different domain, are provisioned to the same service by a PDP.
- 14. The method as defined in claim 13 wherein two separate PEPs, each from a different domain, are provisioned to the same service by a PDP.
- 15. The method as defined in claim 14 wherein the PDP is in one of the two domains.
- 16. The method as defined in claim14 wherein the PDP is in a third domain.